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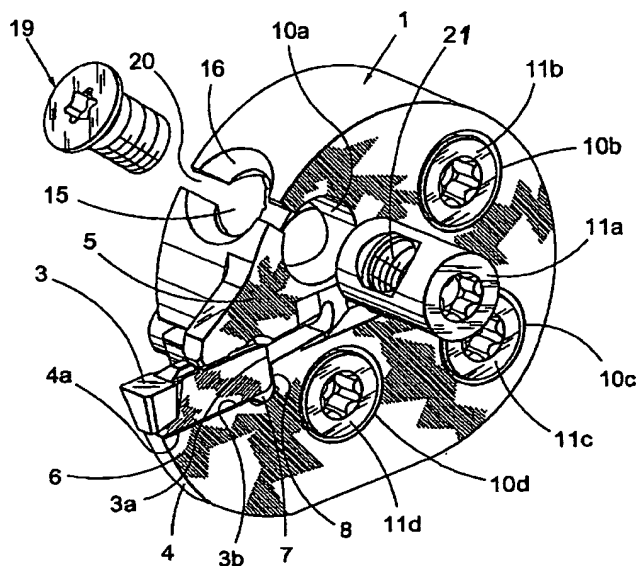
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- (51) International Patent Classification⁷: **B23B 27/04** **BERMINGE, Erik** [SE/SE]; S Skeppsbron 10 a 1tr, S-802 80 Gävle (SE). **OLSSON, Helena** [SE/SE]; Klintbergsgatan 13, S-803 24 Gävle (SE).
- (21) International Application Number: PCT/SE03/01013
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0201861-2 18 June 2002 (18.06.2002) SE
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- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **HANSSON, Per** [SE/SE]; Iggövagen 57, S-805 96 Gävle (SE). *For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: CUTTING TOOL HEAD FOR A METALWORKING TOOL



(57) Abstract: The present invention relates to a tool head for a chip metal working tool having a cutting insert (3), comprising a basic holder (1) and an integral insert holder (4), the forward portion of which is provided with an insert pocket between a lower support portion (6) and an upper clamp portion (5) wherein the upper clamp portion (5) is actuable by a press device. The characteristic is that the press device is in the shape of a clamp screw (19) with a conical head (18) that is received in a recess in the basic holder (1) and arranged to be subjected to displacement in its axial direction such that its conical head (18) upon insertion in a slit (20) spaced from the insert pocket achieves such bending outwardly of the upper portion of the basic holder (1) such that thanks to its movement a clamping of the insert occurs.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/01013

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B23B 27/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B23B, B23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1025939 A1 (SANDVIK AKTIEBOLAG), 9 August 2000 (09.08.00), page 4, line 21 - line 22, figures 1,2, abstract --	1-9
Y	US 4887945 A (JOSEPH PANO), 19 December 1989 (19.12.89), figures 2-5,7, abstract --	1-9
Y	US 5112164 A (JOSEPH PANO), 12 May 1992 (12.05.92), figure 7, abstract --	1-9
A	US 6186704 B1 (JOHN G. HALE), 13 February 2001 (13.02.01), figure 1, abstract --	1-9

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CH 688794 A5 (STELLRAM S.A.), 31 March 1998 (31.03.98), figures 1,2, abstract --	1-9
A	DE 3301919 A1 (KELLER, WERNER), 26 July 1984 (26.07.84), figures 1-3, abstract -- -----	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

26/07/03

International application No.

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DE	3301919	A1	26/07/84	NONE		